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ABSTRACT OF THE DISCLOSURE

A card shuffling device includes a top surface, a card receiving area for receiving an initial set of playing cards, a randomizing or arranging system for the initial set of playing cards, a collection surface in a card collection area for receiving randomized playing cards, the collection surface receiving cards positioned so that all cards collected are below the top surface of the device, and an elevator for raising the collection surface so that at least some randomized cards are elevated above the top surface of the device. An automatic card shuffler includes a microprocessor with memory. An automated calibration system is provided that calibrates the precise position of the card supporting platform on the elevator so that precise insertion of cards can be performed during card handling procedures.

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Figure 10 shows a vertical cutaway view of the shuffler 900 with card reading camera 916 therein. The various elements are shown in a different view, such as the pick off rollers [[904 and 906]] 804 and 806 and the intermediate rollers 908 within the initial card set receiving area 902. Sensor 920 is shown in Figure 9 as a card set sensor 920 that indicates that there are still cards in the initial card set area 902. Sensor 928 is in a more favorable card sensing position to act as a trigger for the camera 916. A set of sensors 922 and 926 operate as card position sensors to check for jamming, clearance, alignment, in-feed availability (into the elevator area 930. The sensors 938 and 926 may also act to assure that a card to be fed into the elevator 930 is properly positioned and available to be inserted by insert rollers 912.